

## PHYS 6320 Summer 2016 Syllabus

Week	Date	Chap	Electrostatics, Electric Field	Sessions
1	June 1-6 Mon	21, 22	Introductions, Electrostatics, Coulomb's Law, Electric Field	1,2,3,4,5
2	June 7-13 Mon	23, 24	Electric Potential, Capacitors	6,7,8,9
3	June 14-20 Mon	25,26	Electric Current, Resistance, DC Circuits, RC Circuits	10,11,12,13
	June 25 Sat		Exam 1, Chs. 21-25	
4	June 21-27 Mon	27,28	Magnets, Magnetic Field, Magnetic Forces, Electromagnets	14,15,16,17,18
5	June 28-Jul 4 Mon	29, 30	Faraday's Law, Transformers, Generators, Inductance, AC Circuits	19,20,21,22,23,24
6	July 5-11 Mon	15, 16	Waves, Sound	25,26,27,28
	July 16 Sat		Exam 2, Chs. 26-29	
7	July 12-18 Mon	31,35 (secs 11-13),32	Maxwell's Equations, EM Waves, Reflections, Refraction, Polarization	29,30,31,32
8	July 19-25 Mon	33, 34	Lenses, Ray Tracing, Optical Apparatus, Wave Nature of Light, Interference	33,34 35,36
9	July 26- Aug 1 Mon	35	Diffraction, Spectroscopy	37,38
	Aug 2 Tue		Exam 3, Chs. 15,16,30-34, secs 11-13 of Ch. 35	
	Aug 4 Thr		Final Exam	